Feeding devices. Automatic. (Paul H. Winter) Jan. p. 39
Finishing. Roto-finish. (Arthur P. Schulze) Apr. p. 35
Fishback, Philip G. Gage control and measuring techniques. May p. 25
Fixture to notch carbide. (E. Diskavitch) June p. 37. Gadget
Fixture, roll-over. Automotive frames. Jan. p. 29, Short. see also
Truck frames.
Flow control by blankholder pressure. (J. W. Lengbridge) Sept. p. 23
Flow of metals in drawing operations. (J. W. Lengbridge) Aug. p. 23
Formulas for rope. (W. F. Schaphorst) Feb. p. 43, Gadget
Frank, C. W. Induction heating coil made adjustable. Oct. p. 41,
Gadget
Frank, C. W. Lock for geneva index table. Sept. p. 41, Gadget
Frank, C. W. Toolholder for solid blanks. Aug. p. 61, Gadget
Fume separator. Industrial uses. Feb. p. 36, Short
Fundamental factors of practical die design. (S. P. Karnitz) July p. 34
Fundamentals of broaching. (John A. Markstrum) Aug. p. 30
Fundamentals of job shop scheduling. (Joseph Kim) Oct. p. 31
Fundamentals of tool engineering. (A. E. Rylander) Feb. p. 39; Oct. p. 39; Nov. p. 36; Dec. p. 38

G

Gabriel, Adam. Proposed bill on the units of length. Jan. p. 45
Gage for tapered bearings. (R. G. Winter) Aug. p. 62, Gadget
Gage control and measuring techniques. (Philip G. Fishback) May p. 25
Gage. Wire. (Edward Diskavitch) Apr. p. 41, Gadget
Gear gage paper weight. (George Scherr Co.) Feb. p. 43, Gadget
Gears. Load rating. (Earle Buckingham) June p. 33
General Electric Co., Apparatus Dept. Cutting and horsepower formula
and chart, Sept. p. 34
Gesdahl, M. S. Education and the tool engineer. Apr. p. 39
Glass "blanket" for stretch forming. (Rex Heath) Aug. p. 58
Good reading (Department): Jan. p. 65; Apr. p. 60; June p. 56; July
p. 54; Aug. p. 63; Sept. p. 53; Oct. p. 52; Nov. p. 49; Dec. p. 54
Graduated angle plate. (Edmund L. Johnson) Feb. p. 43, Gadget
Gravity pressure for drawing dies. (Frederico Strasser) Nov. p. 34
Guess, R. D., and Libsch, J. F. Selective hardening of wear surfaces.
May p. 31
Grinding. Jig. (Wajson N. Nordquist) Jan. p. 37
Grinding. Internal. Jan. p. 29, Short
Grinding wheels. Internal cooling. (Alexander Maxwell) Dec. p. 31

Hardening. Selective. Wear surfaces. (J. F. Libsch and R. D. Guess)
May p. 31
Hardening. Surface. (Anders Jansson) Jan. p. 47
Harmon, C. R. and Reitler, E. J. Tungsten carbide blanking dies. Mar. Harmon, C. R. and Reitler, E. J. Tungsten carbide blanking dies. Mar. p. 47
Haynes, Robert W. Tooling up the job. Sept. p. 37
Heath, Rex. Glass "blanket" for stretch forming. Aug. p. 58
Heath, Rex. "News" on the production front. Apr. p. 29
Heath, Rex. Standardized guns cut welding costs. Sept. p. 36
Hildebrandt, Arnold. Automatic spinning of stainless steel. Sept. p. 20
Holland, I. F. They will see and believe. Apr. p. 1
Holland, I. F. Tool engineering's sesqui-centennial. June p. 1
Holland, I. F. Frecrackers and free enterprise. July p. 1
Holland, I. F. Progress on the Pacific. Aug. p. 1
Holland, I. F. Tool engineers as missionaries. Oct. p. 1
Holland, I. F. Tool engineers as missionaries. Oct. p. 1
Holland, I. F. Thanksgiving thoughts. Nov. p. 1
Holland, I. F. Thanksgiving thoughts. Nov. p. 1
Holland, I. F. And it shall come to pass. Dec. p. 1
Hoppers, Automatic. (A. E. Rylander) Sept. p. 17
Horn, J. L. Research facilities for industry. July p. 34
Huge lathe speeds turning of diesel crankshafts. Feb. p. 25, Short
Hydraulic pressure unit. (George W. Brown) June p. 57, Gadget

Index. Numerical. Jan. p. 38, Short
Index to vol. XVII (Aug. 1946 to Jan. 1947) Apr. p. 60
Index to vol. XVIII (Feb. 1947 to July 1947) Mar. p. 69
Index to vol. XIX (Aug. 1947 to Jan. 1948) Feb. p. 44
Index table. Lock. (C. W. Frank) Sept. p. 41, Gadget
Induction heating coils Single vs Multi-turn. (Frank) Oct. p. 41, Gadget Induction heating coils. Single vs Multi-turn. (Frank W. Curtis) Induction heating coils. Single vs Multi-turn. (Frank W. Curtis) Oct. p. 38
Industrial diamonds. Application. (E. A. Ryden) Nov. p. 24
Industrial safety and the tool designer. (H. L. Smith) Apr. p. 25
Inserted-tooth milling cutter (Carl Bjorklund) Nov. p. 39, Gadget
Inspectors ride high at Convair. Apr. p. 28, Short
Interesting setup for automatic cycle stud welding. Oct. p. 33, Short
Internal cooling of grinding wheels. (Alexander Maxwell) Dec. p. 31
Introduction to aluminum presswork. (J. W. Lengbridge) June p. 17
Introduction to cutting tools. (E. A. Rylander) Aug. p. 59
Introduction to plant layout. (A. E. Rylander) Jan. p. 17
It pays to experiment. (George W. Bruck) June p. 36

3

Jansson, Anders. A "new" for production surface hardening. Jan. p. 47 J. J. Kohl elected president of tool and die manufacturers. Dec. p. 28, Short
Jet engineers "build a fire". July p. 20, Short
Job planning on the turret lathe. (E. L. Murray) Feb. p. 17; Mar. p. 33
Johnson, Edmund L. Graduated angle plate. Feb. p. 43, Gadget
Johnson, Edmund L. Positioner-stop for drilling. Apr. p. 41, Gadget
Johnson, Edmund L. Self-aligning back rest. Jan. p. 65, Gadget
Johnson, Edmund L. Versatile tool holder. Mar. p. 51, Gadget Kennedy, C. W. Let the machine talk. Apr. p. 17 Kim, Joseph. Fundamentals of job shop scheduling. Oct. p. 31 Kinne, E. H. Automatic two-positioner stop. Dec. p. 40, Gadget Kuhn, Emil. Cutting and fragmentation formulae. June p. 43, July p. 25

1.

Lambert, Charles E. Accurate drilling without a jig. Jan. p. 30
Lengbridge, J. W. Theory and practice of pressing aluminum. June p. 17;
July p. 21; Aug. p. 23; Sept. p. 23; Oct. p. 23; Nov. p. 27; Dec. p. 34
Let the machine talk. (C. E. Kennedy) Apd. p. 17
Libsch, J. L. and Guess, R. D. Selective hardening of wear surfaces.
May p. 31
Licensing of tool engineers. Compulsory. (Robert B. Douglas) Oct. p. 21
Locator for drill jig. (E. E. Woodman) July p. 36, Gadget
Locating pin. Retractible. (John J. Boe) Sept. p. 42, Gadget
Lock for geneva index table. (C. W. Frank) Sept. p. 41. Gadget
Lovisek, Louis J. Design and function of a sliding come punch. Apr. p. 21
Lubrication extends band saw life. (H. L. Chamberland) Oct. p. 36

W

McArthur, F. J. Milling-drilling attachment saves handling. Sept. p. 30 McDonaid. D. E. Centering tool for milling cutters. Jan. p. 36 Machining large work. (E. K. Morgan) Sept. p. 31 Matchining large work. (E. K. Morgan) Sept. p. 31 Mattby, James. Driver for shanked tools. June p. 37, Gadget Mattby, James. Emergency "hard" drill. Dec. p. 41, Gadget Mattby, James. Plunger to eject work. Sept. p. 42, Gadget Mattby, James. Screw feed for tailstock. July p. 35, Gadget Markstrum, John A. Fundamentals of broaching. Aug. p. 30 Martindell. Frank. Piano wire for eyelet machine needles. Nov. p. 38. Gadget
Martindell, Frank. Predicting results of conveyor line assembly. Nov. p. 33
Materials handling survey. (E. A. Ryder) Aug. p. 21
Matter, James K. Drilling 18-8 stainless steel. Oct. p. 29
Mawson, Robert. An improved cam movement. Dec. p. 41, Gadget
Mawson, Robert. (combination tool design) July p. 35, Gadget
Mawson, Robert. Drill fixture for machine tool headstock. Apr. p.38
Mawson, Robert. Drill jig for hex tube. Jan. p. 65, Gadget
Mawson, Robert. Precision combination case. Nov. p. 38, Gadget
Mawson, Robert. Rotary drill jig features simple design. Oct. p. 42,
Gadget Gadget

Maxwell, Alexander. Internal cooling of grinding wheels. Dec. p. 31

Measurement. Proposed bill on units of length. (Adam Gabriel) Jan. p. 45

Metal cutting. Thermal aspects. (A. O. Schmidt and J. R. Roubik)

Nov. p. 20

Metal gauge comparator than 1. Nov. p. 20
Metal gauge comparator chart. Jan. p. 35, Short
Metal molds for plastics. (Thomas A. Dickinson) Mar. p. 27
Metal spraying—a modern production process. (A. E. Rylander) Nov. p. 25
Metals comparator. (General Electric Co.) Feb. p. 43, Gadget
Milling cutter. Inserted-tooth. (Carl Bjorklund) Nov. p. 39, Gadget
Milling-drilling attachment saves handling. (F. J. McArthur) Sept. p. 30
Milling on the drill press. (R. Andrews) Nov. p. 39, Gadget
Modified geneva drive for hi-speed machines. (Paul H. Winter) May
p. 23 Modified geneva drive for hi-speed machines. (Paul H. Winter) May p. 23
More power to America. Apr. p. 20, Short
Morgan. E. K. The "how" of machining large work. Sept. p. 31
Motor generators. Servicing. Sept. p. 29, Short
Murray, E. L. Job planning on the turret lathe, Feb. p. 17; Mar. p. 33
Myers, F. W., Jr. Nomenclature and applications of welding electrodes.
July p. 29

New high speed motor may revolutionize internal grinding. Jan p. 29. Short
New press for powder metals, Fcb. p. 42. Short
"News" on the production front. (Rex Heath) Apr. p. 29
New pantograph simplifies duplicating. (Gunnar Skog) Feb. p. 26
Nomenclature and applications of welding electrodes. (F. W. Myers, Jr.) July p. 29
Nordquist, Watson N. Development of economical jig grinding. Jan. p. 37
Nordquist, Watson N. Efficient tool engineering cuts motor costs. May p. 33. Nordquist, Watson N. Editects to the State of the State o

0

Oscillating forming die. (Federico Strasser) Aug. p. 62, Gadget Owen, Halsey F. What is tool engineering? Nov. p. 17

Pacific industry forges ahead. (Watson N. Nordquist) Aug. pp. 46
Paints. Exterior. Masonry. Apr. p. 41, Short
Parks, John R. Bellows type thermostet. Feb. p. 27
Patterns from casting resins. (Robert W. Shæffer) June p. 31
Pierce, W. B. We need industrial statesmanship. Jan. p. 1
Pierce, W. B. Accelerating industrial progress. Feb. p. 1
Pierce, W. B. The world looks to America. Mar. p. 1
Periodical literature for the tool engineer. Mar. p. 72, Short
Pirno wire for eyelet machine needle. (Frank Martindell) Nov. p. 38,
Gadget

Piloted boting bars. (A. E. Rylander) Nov. p. 36
Piston pin hole production. (A. Francis Townsend) Dec. p. 29
Planning for plant layout. (A. E. Rylander) Mar. p. 41
Plant layout. Fundamentals. (A. E. Rylander) Feb. p. 31
Plant layout. Introduction. (A. E. Rylander) Jan. p. 17
Plant layout. Introduction. (A. E. Rylander) Jan. p. 17
Plant layout. Planning. (A. E. Rylander) Mar. p. 41
Plastics. Metal molds. (Thomas A. Dickinson) Mar. p. 27
Plating. Tungsten to high speed. Jan. p. 36, Short
Plunger to eject work. (James Maithy) Sept. p. 42, Gadget
Positioner-stop for drilling. (Edmund L. Johnson) Apr. p. 41, Gadget
Powder metals. see Press.
Pratt, Doris. East meets west at Los Angeles convention. Dec. p. 17
Precision boring tool design. (A. E. Rylander) Dec. p. 38
Pretti, Doris. East meets west at Los Angeles convention. Dec. p. 17
Precision casting—a production achievement. (Chester S. Ricker) Sept. p. 27
Precision mensuring instruments made from wood. (Dr. N. N. Sawin)
June p. 27
Precision "stamping" on the broaching machine. June p. 29, Short
Predetermined speed control of sir cylinders. (Paul H. Winter) Aug. p. 23
Pression's stamping on the broaching machine. (Paul H. Winter) Aug. p. 33
Press for powder metals. Feb. p. 42, Short
Presswork. Aluminum. (J. W. Lengbridge) June, p. 17; July p. 21;
Aug. p. 23; Sept. p. 23; Oct. p. 23; Nov. p. 27; Dec. p. 34
Private seminar on standardization. Jan. p. 44, Short
Procedures for drawing flanged shells. (James Walker) Feb. p. 37
Proposed bill on the units of length. (Adam Gabriel) Jan. p. 45
Pros and cons of a formula for drawing shells. (James Walker) June

Q

Quality control. War-time methods fight postwar inflation. July p. 33, Short

R

Redrawing operations on circular and rectangular shells. (J. W. Lengbridge) Oct. p. 27
Reduction factors in drawing operations. (J. W. Lengbridge) Oct. p. 23
Reitler, E. J., and Harmon C. R. Tungsten carbide blanking dies. Mar. p. 27
Retractible locating pin. (John J. Boe) Sept. p. 42, Gadget
Ricker, Chester S. Precision casting—a production achievement. Sept. p. 27
"Roll-over" truck frames. Nov. p. 23, Short. See also Fixture, roll-over Rotary drill jig features simple design. (Robert Mawson) Oct. p. 42, Gadget
Roto-finish spurs finishing economics. (Arthur P. Schulze) Apr. p. 35
Roubik, J. R. and Schmidt, A. O. Some thermal aspects of metal cutting. Nov. p. 20
Round tee-slots. (Irom Verkstaderna) Oct. p. 42, Gadget
Ryden, E. A. Application of industrial diamonds. Nov. p. 24
Ryder, E. A. Coiling enamel coated wire. Oct. p. 41, Gadget
Ryder, E. A. Unilateral tolerances for drilled and reamed holes. Oct. p. 27
Rylander, A. E. Automatic hoppers speed assembling. Sept. p. 17
Rylander, A. E. Cost cutting with rotary swaging. Oct. p. 17
Rylander, A. E. Developments in metal stitching. Dec. p. 32
Rylander, A. E. Fundamentals of tool engineering. Aug. p. 59; Sopt. p. 39; Oct. p. 39; Nov. p. 36; Dec. p. 38
Rylander, A. E. Metal spraying—a modern production process. Nov. p. 25
Rylander, A. E. Metal spraying—a modern production in review, May p. 35

S

Safety. Industrial. (H. L. Smith) Apr. p. 25
Satoski, Joseph. Tool for oil grooving. July p. 36, Gadget
Sawin, Dr. N. N. Precision measuring instruments made from wood.
June p. 27
Schaphorst, W. F. Chart for wooden beams. Mar. p. 51, Gadget
Schaphorst, W. F. Conveyor life doubled. Apr. p. 41, Gadget
Schaphorst, W. F. Conveyor life doubled. Apr. p. 41, Gadget
Schaphorst, W. F. Formulas for rope. Feb. p. 43, Gadget
Schaphorst, W. F. Formulas for rope. Feb. p. 43, Gadget
Schmidt, A. O. and Roubik, J. R. Some thermal aspects of metal cutting. Nov. p. 20
Schulze, Arthur P. Roto-finish spurs finishing economies. Apr. p. 35
Scrap drive helps to solve steel shortage. Aug. p. 29, Short
Screw feed for tailstock. (James Maltby) July p. 35, Gadget
Screw thread standardization. Nov. p. 33, Short
Seekims, H. L. Balancing supercharger rotors. Jan. p. 25
Selective hardening of wear surfaces. (J. F. Libsch and R. D. Guess)
May p. 31
Self-aligning back rest. (Edmund L. Johnson) Jan. p. 65, Gadget
Servicing of motor-generators a precision job for San Francisco branch
of General Electric. Sept. p. 29, Short
Shaefler, Robert W. Patterns from casting resins. June p. 31
Simple drill jig. (Frederico Strasser) Mar. p. 51, Gadget
Simple gage for wire. (Edward Diskavitch) Apr. p. 41, Gadget
Simple gage for wire. (Edward Diskavitch) Apr. p. 41, Gadget
Simple gage for wire. (Edward Diskavitch) Apr. p. 41, Gadget
Simple gage for wire. (Edward Diskavitch) Apr. p. 41, Gadget
Simple gage for wire. (Edward Diskavitch) Apr. p. 41, Gadget
Simple gage for wire. (Edward Diskavitch) Apr. p. 41, Gadget
Simple gage for wire. (Edward Diskavitch) Apr. p. 41, Gadget
Simple gage for wire. (Edward Diskavitch) Apr. p. 41, Gadget
Simple gage for wire. (Edward Diskavitch) Apr. p. 41, Gadget
Simple gage for wire. (Edward Diskavitch) Apr. p. 41, Gadget
Simple gage for wire. (Edward Diskavitch) Apr. p. 41, Gadget
Simple gage for wire. (Edward Diskavitch) Apr. p. 41, Gadget
Simple gage for wire. (Edward Diskavitch) Apr. p. 41, Gadget
Simple gage for wire. (Edwa

Somers, O. H. Tools for dimensional quality control. Nov. p. 31
Sommers, Gordon H. Analytical determination of radial cam profile
May p. 17
Spinning. Automatic. Stainless steel. (Arnold Hildebrandt) Sept. p. 2
Stacking for die storage. Nov. p. 32, Short
Standardized guns cut welding costs. (Rex Heath) Sept. p. 36
Stewart, Harry L. Air and hydraulic clamping for jigs and fixture.
Dec. p. 25
Stinson '48 flying station wagon makes its bow to the flying public. May p. 30, Short
Strasser, Frederico. Combination die to cut and bend wire. Apr. p. 3Strasser, Frederico. Gravity pressure for drawing dies. Nov. p. 34
Strasser, Frederico. Oscillating forming die. Aug. p. 62, Gadget
Strasser, Frederico. Simple drill jig. Mar. p. 51. Gadget
Stretch forming. Glass blanket. (Rex Heath) Aug. p. 58
Strip mill. Electric control. Apr. p. 38, Short
Supercharger rotors. (H. L. Seekins) Jan. p. 25
Swaging. Rotary. (A. E. Rylander) Oct. p. 17

T

Tee-slots. Round. (from Verstaderna) Oct. p. 42, Gadget
The "how" of a materials handling survey. (E. A. Ryder) Aug. p. 21
The "how" of machining large work. (E. K. Morgan) Sept. p. 21
The tool engineer's industrial exposition in preview. (Gunnar Skog)
Mar. p. 17
The tool engineer's industrial exposition in preview. (A. E. Rylander)
May p. 35
Thermostat. Bellows type. (John R. Parks) Feb. p. 27
Things are really spinning. Sept. p. 38, Short
To remove broken stub shafts. Oct. p. 41, Gadget
Tool and die manufacturers. Meeting. Dec. p. 28, Short
Tool design. Combination. (Robert Mawson) July p. 35, Gadget
Tool engineering (defined). (Halsey F. Owen) Nov. p. 17
Tool engineering, Fundamentals. (A. E. Rylander) Aug. p. 59; Sept. p. 39; Oct. p. 39; Nov. p. 36; Dec. p. 38
Tool for oil grooving. (Joseph Satoski) July p. 36, Gadget
Tool show preview. Feb. p. 44, Short
Tool steel selection. (Harold Chambers) Nov. p. 18
Toolloider for solid blanks. (C. W. Frank) Aug. p. 61, Gadget
Tooling the Wright cyclone forged cylinder head. (F. E. Whitacre)
July p. 17
Tooling up the job. (Robert W. Haynes) Sept. p. 37
Tools. Cutting. Engine lathe. (A. E. Rylander) Oct. p. 39
Tools for dimensional quality control. (O. H. Somers) Nov. p. 31
Tools of today (Department): Jan. p. 67; Feb. p. 64; Mar. p. 74;
Apr. p. 65; May p. 64; June p. 59; July p. 59; Aug. p. 66;
Sept. p. 55; Oct. p. 55; Nov. p. 53; Dec. p. 57
Tough tapping job made easy. June p. 35, Short
Townsend, A. Francis. Piston pin hole production. Dec. p. 29
Trade literature (Department): Jan. p. 96; Feb. p. 63; Mar. p. 73;
Apr. p. 65; May p. 63; June p. 57; July p. 58; Aug. p. 65; Sept. p. 54; Nov. p. 50; Dec. p. 56
Truck frames. "Roll-over". Nov. p. 23, Short. see also Fixture, rollover
Tungsten carbide blanking dies. (E. L. Murray) Feb. p. 17; Mar. p. 33

U

Unilateral tolerances for drilled and reamed holes. (E. A. Ryder) Oct., p. 27

V

Versatile collet chuck. (George W. Brown) Aug. p. 61, Gadget

W

War-time quality control methods fight postwar inflation. July p. 33, Short

Walker, James. Drawing die problems and formulae. Jan. p. 31; Feb. p. 37

Walker, James. Pros and cons of a formula for drawing shells. June p. 35

Welding electrodes. Nomenclature and applications. (F. W. Myers, Jr.) July p. 29

Welding, Standardized guns. (Rex Heath) Sept. p. 36

Welding, Standardized guns. (Rex Heath) Sept. p. 33, Short

"Well sweep" balancer. Apr. p. 41, Gadget

What is tool engineering? (Halsey F. Owen) Nov. p. 17

When and how to use cast iron. (T. E. Eagan) Aug. p. 17

Whitacre, F. E. Tooling the Wright cyclone forged cylinder head. July p. 17

Who is to blame? Mar. p. 40

Wide industrial uses for fume separator. Feb. p. 36, Short

Winter, Paul H. Automatic feeding devices. Jan. p. 39

Winter, Paul H. Modified geneva drive for hi-speed machines. May p. 23

Winter, Paul H. Predetermined speed control of air cylinders. Aug. p. 27

Winter, Paul H. Work ejector for drill press. Nov. p. 39, Gadget

Winter, R. G. Gage for tapered diameters. Aug. p. 62, Gadget

Winter, R. G. Gage for tapered diameters. Aug. p. 62, Gadget

Wire, enamel coated. Coiling. (E. A. Ryder) Oct. p. 41, Gadget

World's fastest strip mill controlled by electric "brain". Apr. p. 38,

Short

